

my

|                               |                        |                     |  |
|-------------------------------|------------------------|---------------------|--|
| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                               | 10/813,321             | JENSON, MARK LYNN   |  |
|                               | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                               | Savitri Mulpuri        | 2812                |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to IDS (10/12/2004) and examiner's amendment prepared on 11/24/04.
2. ☒ The allowed claim(s) is/are 1,4-5, 7-24, 27-30,37-57.
3. ☒ The drawings filed on 23 March 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                       |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>10/12/2004</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                 | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance              |
|  | 9. <input type="checkbox"/> Other _____.  |

Art Unit: 2812

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Lemaire on 11/23/04.

The application has been amended as follows:

In claim 1:

In line 5 after "battery, " add --- wherein the depositing of the second layer further includes supplying an amount of ion-assist energy to the second layer to aid in crystalline layer formation, while controlling a stoichiometry of the crystalline layer without substantially heating the substrate and wherein the battery is a thin-film lithium battery

In line 5 after "battery; " delete "and"

In line 7 (as a separate new line) add

--- attaching an integrate circuit to the substrate; and

Operatively coupling the integrated circuit to charge the battery using current from the photo voltaic cell,

Wherein either the first or the second layer forms a cathode layer of the battery, wherein the battery includes the cathode layer, an anode layer, and an electrolyte layer located between and electrically isolating the anode layer from the cathode layer, wherein the anode or the cathode or both include an intercalation material. ----

Art Unit: 2812

Cancel claims 2

Cancel claim 3

Cancel claim 6

In claims 11-17, 21-28, in line in claims 11-17, 21-28 replace "2" ----1 ---

Cancel claim 25

Cancel claim 26

In claim 30:

In line 4 before "energy" --- ion-assist---

In line 6 after "substrate" add ----, wherein the supplying of energy to the first layer includes supplying energized particles from a second source simultaneously with supplying electrolyte material from a first source-----

In line 7 before "energy" --- ion-assist---

line 9, after "substrate" add -----, wherein the first layer and second layer form at least part of a thin-film lithium battery;

depositing one or more other layers on the battery in order to form a photovoltaic cell; and

attaching an integrated circuit to the battery and the photovoltaic cell for charging the battery using current from the photovoltaic cell. ----

Cancel claims 31- 36

In claim 54, line 11 after "cell, " delete "."

Reasons for Allowance:

Art Unit: 2812

The following is an examiner's statement of reasons for allowance: prior art neither teach nor suggest teaching depositing a second layer onto the a first layer, wherein the depositing of the second layer further includes supplying an amount of ion-assist energy to the second layer to aid in crystalline layer formation, while controlling a stoichiometry of the crystalline layer without substantially heating the substrate and wherein the battery is a thin-film lithium battery; attaching an integrate circuit to the substrate; and operatively coupling the integrated circuit to charge the battery using current from the photovoltaic cell.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Mon-Fri from 8 a.m. to 4.30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling, can be reached on 571-272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2812

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Savitri Mulpuri  
Primary Examiner  
Art Unit 2812